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ARTIFICIAL MILK COMPOSITION FOR YOUNG ANIMAL

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Applicants

KAO CORP (A Japanese Company or Corporation), JP (Japan)

Application Number: 63-251677 (JP 88251677), October 05, 1988

International Class (IPC Edition 5):

A23K-001/18

JAPIO Class:

• 11.3 (AGRICULTURE--- Livestock)

Abstract:

PURPOSE: To obtain the subject composition effective in hastening the weaning of young animal and ameliorate the underdevelopment caused by the weaning stress by adding a medium-chain fatty acid triglyceride to an artificial milk for young animal.

CONSTITUTION: The objective composition is produced by adding >=0.5wt.% (preferably 0.5-20wt. %) of triglyceride of a 6-10C medium-chain fatty acid (e.g., caprylic acid) to an artificial milk for young animal. (From: Patent Abstracts of Japan, Section: C, Section No. 734, Vol. 14, No. 304, Pg. 92, June 29, 1990)

JAPIO

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PARTIAL TRANSLATION OF

JAPANESE UNEXAMINED UTILITY MODEL APPLICATION NO. H2-100635

Title: Hollow Fiber Membrane Module

Applicant: Nitto Denko Corporation

[Scope of the Utility Model Registration]

A hollow fiber membrane module having a plurality of vertically arranged module units, comprising:

multiple hollow fiber membranes having their lower ends sealed and being arranged around a vertical feed-water pipe; and

protective tubes for covering the multiple hollow fiber membranes and having their upper ends provided with a partition wall, wherein

the upper end of the feed-water pipe and the upper end of each of the hollow fiber membranes are opened on the upper face of the partition wall;

the module further comprising:

a connector for connecting the upper end of the feed-water pipe and the upper ends of hollow fiber membranes of a lower module unit to the lower end of the feed-water pipe of an upper module unit in communication with each other;

a scale outlet disposed at the lower end of each of the protective tubes; and

air-passage gaps provided in the connector and the partition wall of a module unit immediately below the connector.

[Brief Description of the Drawings]

FIG.1 A is a schematic diagram illustrating the module units for use in the present device;

FIG.1 B is a cross-sectional view taken along line b-b of FIG.1 A:

FIG.2 is a schematic diagram illustrating an embodiment of the present device;

FIG.3 is a schematic diagram illustrating a conventional example; and

FIG. 4 is a schematic diagram illustrating a conventional example.

- 1 Module units
- 2 Feed-water pipe
- 12 Hollow fiber membranes
- 13 Protective tubes
- 14 Partition wall
- 2 Connector
- 16 to 24 Air-passage gaps

⑩ 日本国特許庁(JP)

①実用新案出願公開

② 公開実用新案公報(U) 平2-100635

MInt. Cl. 1

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❸公開 平成2年(1990)8月10日

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審査請求 未請求 請求項の数 1 (全2頁)

60考案の名称

中空糸膜モジュール

②実 頭 平1-10162

願 平1(1989)1月30日 22)出

図考案 者

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砂実用新薬登録請求の範囲

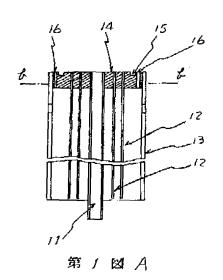
下端を閉塞した多数本の中空糸膜を垂直送水管 の回りに配し、これらに保護筒を被せ、該保護筒 の上端に隔壁を設け、隔壁の上面に送水管の上端 並びに各中空糸膜の上端をそれぞれ開口させてな るモジュールユニットを複数筒、凝列に配し、コ ネクターによつて下側モジュールユニツトの送水 管上端並びに中空糸膜上端を上側モジュールユニ ツトの送水管下端に連通接続し、各保護筒の下端 部にスケール排出口を設け、しかも、同コネクタ 一並びに該コネクター直下のモジユールユニツト の隔壁に空気通過孔を設けたことを特徴とする中

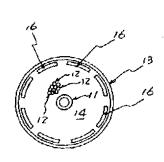
空糸膜モジュール。

図面の簡単な説明

第1図Aは本考案において使用するモジュール ユニットを示す説明図、第1図Bは第1図Aにお けるb-b断面図、第2図は本考案の実施例を示 す説明図、第3図並びに第4図はそれぞれ従来例 を示す説明図である。

1……モジュールユニット、11……送水管、 12~~~保護筒、14~~~隔 壁、2……コネクター、16-24……空気通過 孔。





第 1 図 8

